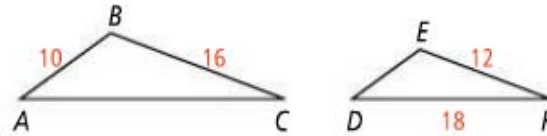


## 2-8 Proportions and Similar Figures

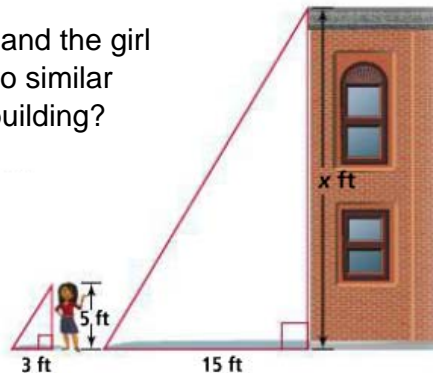
### Notes & examples

Similar figures have the same shape but are different sizes. You can use proportions to find missing side lengths in similar figures.

1. In the diagram,  $\triangle ABC \sim \triangle DEF$ . How long is DE?



2. The sun's rays strike the building and the girl at the same angle, forming the two similar triangles shown. How tall is the building?



3. The scale of a map is 1 cm : 75 km. What is the actual distance between two towns that are 12 cm apart on the map?